

## SIRP- $\alpha$ 1 Rabbit pAb

CatalogNo: YT4301

Orthogonal Validated 

### Key Features

**Host Species**

- Rabbit

**Reactivity**

- Human, Mouse, Rat

**Applications**

- WB, IHC, IF, ELISA

**MW**

- 55kD (Observed)

**Isotype**

- IgG

### Recommended Dilution Ratios

**WB 1:500-1:2000****IHC 1:100-1:300****ELISA 1:20000****IF 1:50-200**

### Storage

**Storage\***

-15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

**Clonality**

Polyclonal

### Immunogen Information

**Immunogen**

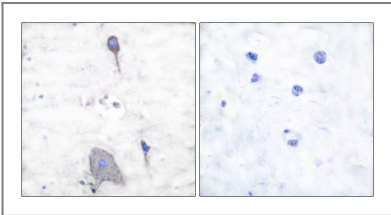
The antiserum was produced against synthesized peptide derived from human Sirp alpha1. AA range:451-500

**Specificity**SIRP- $\alpha$ 1 Polyclonal Antibody detects endogenous levels of SIRP- $\alpha$ 1 protein.

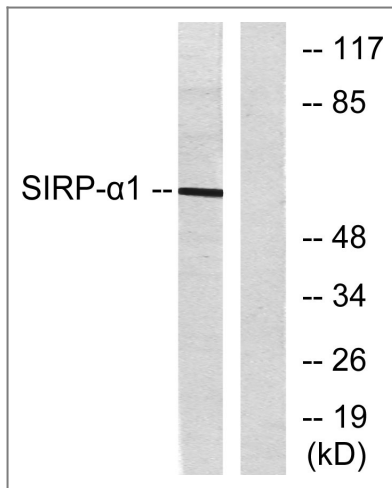
### Target Information

Gene name	SIRPA		
Protein Name	Tyrosine-protein phosphatase non-receptor type substrate 1		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">140885</a> ;	<a href="#">P78324</a> ;
	Mouse	<a href="#">19261</a> ;	<a href="#">P97797</a> ;
	Rat	<a href="#">25528</a> ;	<a href="#">P97710</a> ;
Cellular Localization	Membrane; Single-pass type I membrane protein.		
Tissue specificity	Ubiquitous. Highly expressed in brain. Detected on myeloid cells, but not T-cells. Detected at lower levels in heart, placenta, lung, testis, ovary, colon, liver, small intestine, prostate, spleen, kidney, skeletal muscle and pancreas.		
Function	<p>Function:Immunoglobulin-like cell surface receptor for CD47. Acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. Supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. May play a key role in intracellular signaling during synaptogenesis and in synaptic function (By similarity). Involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin. Mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells.,PTM:N-glycosylated.,PTM:Phosphorylated on tyrosine residues in response to stimulation with EGF, growth hormone, insulin and PDGF. Dephosphorylated by PTPN11.,similarity:Contains 1 Ig-like V-type (immunoglobulin-like) domain.,similarity:Contains 2 Ig-like C1-type (immunoglobulin-like) domains.,subunit:Binds PTPN11 when tyrosine-phosphorylated, except in macrophages, where it primarily binds PTPN6. Binds GRB2 in vitro. Binds FGR (By similarity). Binds JAK2 irrespective of its phosphorylation status and forms a stable complex. Binds SCAP1 and/or SCAP2. The resulting complex recruits FYB. Binds PTK2B.,tissue specificity:Ubiquitous. Highly expressed in brain. Detected on myeloid cells, but not T-cells. Detected at lower levels in heart, placenta, lung, testis, ovary, colon, liver, small intestine, prostate, spleen, kidney, skeletal muscle and pancreas.,</p>		

| Validation Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Sirp alpha1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using Sirp alpha1 Antibody. The lane on the right is blocked with the synthesized peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**SIRP-α1 Rabbit pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)